DECON
ENVIRONMENTAL
SERVICES, INC.

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Jason Gulbransen
Project Manager

September 15, 2004

ORIGINAL

Mr. Todd Miller
Malcolm Pirnie, Inc.
2000 Powell Street, Suite 1180
Emeryville, CA 94608

RE: System Operation Status Report
2nd Quarter April, May, June 2004
Jefferson Car Wash Site
Groundwater Extraction and Treatment System
3080 Jefferson Street, Napa, California

Dear Mr. Miller;

DECON Environmental Services, Inc. (DECON) has prepared this Status Report to document the quarterly activities at the above referenced site. The Jefferson Car Wash groundwater extraction and treatment system operates by pumping groundwater from two-extraction wells (EW-2, EW-3). The water is conveyed to the treatment compound where the water extracted from each well combines into one pipe and flows through a 10 micron bag filter. The raw water then flows through two granular activated carbon (GAC) units. The treated water then proceeds through a flow totalizer/meter and is discharged into the Napa Sanitary sewer system. The treatment system contains a piping manifold that allows the three carbon units to be utilized in any lead-lag configuration. Currently GAC vessel #1 is the lead and GAC vessel #2 is the lag. No change to the configuration occurred this quarter.

The purpose of this treatment system is to remove TPH-gasoline and MTBE contaminants from the groundwater. Monthly groundwater sample analyses indicate the system is meeting its intended purpose. The monthly sample analysis indicates the presence of TPH-gasoline and MTBE in the raw water from each extraction well. Analytical results from the treated effluent are consistently non-detect for these compounds.

The attached table summarizes the analytical results for each month at each sample location. There are five sample locations: (1) EW-2, (2) EW-3, (3) Combined Influent, (4) Lag GAC Vessel Inlet, (5) Effluent/Discharge point.

April 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

The approximate contaminant mass removed is as follows:
61.49 grams of TPH-gasoline was removed from 310,464 gallons of treated water.
79.30 grams of MTBE was removed from 310,464 gallons of treated water.

May 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

The approximate contaminant mass removed is as follows:
34.31 grams of TPH-gasoline was removed from 215,306 gallons of treated water.
36.71 grams of MTBE was removed from 215,306 gallons of treated water.

June 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

The estimated contaminant mass removed is as follows:
71.76 grams of TPH-gasoline was removed from 263,260 gallons of treated water.
46.55 grams of MTBE was removed from 263,260 gallons of treated water.

Based on the influent sample analysis it is calculated that the GAC bed life of the lead vessel should be six to eight months at current operating conditions.

System Observations/Recommendations

High summer ambient temperatures produced numerous high temperature warnings from the control panel. DECON has proposed constructing a shade structure to reduce the heat generated from direct sunlight hitting the front of the control panel in the afternoon hours of the day. This shade structure will be constructed upon review and approval of the shade structure design by Malcolm Pirnie.

A second recommendation was presented to modify the discharge piping configuration after the discharge flow meter. The discharge flow meter is not recording the same total flow volume as the combines flow from each wellhead flow meter. Since the flow volume is so low, ~7gpm on a daily average, it is summarized that water is traveling passed the discharge flow meter and is not being accurately recorded. It was determined to add an uphill section of piping after the discharge flow meter to maintain a full pipe volume at the flow meter. This should remedy the inaccurate flow readings at the discharge flow meter. This modification will be implemented upon review and approval by Malcolm Pirnie.

The lead GAC vessel (#1) and the lag GAC vessel (#2) appear to be operating properly, as no break-thru of contaminants at the lead vessel has occurred.

A total of 789,030 gallons of groundwater were treated during the 2nd quarter of 2004.

Please feel free to contact me with any questions regarding this project.

Sincerely,
DECON Environmental Services, Inc.

Jason Gulbransen

Jason Gulbransen
Project Manager

Second Quarter, 2004
Summary of analytical Results
Jefferson Car Wash
Groundwater Treatment System

APRIL, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	150	31	71	<25	<25
BTEX	ug/l	BDL	BDL	BDL	BDL	BDL
MTBE	ug/l	230	32	90	BDL	BDL
TPH-d	ug/l	<50	<50	<50	<50	<50
Total Lead	ug/l	<15	<15	<15	<15	<15
Total Flow	gallons	55,634	254,830	N/A	N/A	310,464

BDL: Below Detection Limits

MAY, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	90	32		<25	<25
BTEX	ug/l	BDL	BDL		BDL	BDL
MTBE	ug/l	140	25		BDL	BDL
TPH-d	ug/l	<50	<50		<50	<50
Total Lead	ug/l	<15	<15		<15	<15
Total Flow	gallons	37,526	177,780	N/A	N/A	215,306

BDL: Below Detection Limits

JUNE, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	160	59	41	<25	<25
BTEX	ug/l	BDL	BDL	BDL	BDL	BDL
MTBE	ug/l	180	27	54	BDL	BDL
TPH-d	ug/l	<50	<50	<50	<50	<50
Total Lead	ug/l	<15	<15	<15	<15	<15
Total Flow	gallons	33,910	229,350	N/A	N/A	263,260

BDL: Below Detection Limits

APRIL, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	150	31	71	<25	<25	
MTBE	ug/l	230	32	90	BDL	BDL	
Total Flow	gallons	55,634	254,830	N/A	N/A	310,464	
	liters (3.78533)	210,593	964,616			1,175,209	
Mass							
TPH-g	grams	31.59	29.90				**61.49**
MTBE	grams	48.44	30.87				**79.30**

MAY, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	90	32		<25	<25	
MTBE	ug/l	140	25		BDL	BDL	
Total Flow	gallons	37,526	177,780	N/A	N/A	215,306	
	liters (3.78533)	142,048	672,956			815,004	
Mass							
TPH-g	grams	12.78	21.53				**34.31**
MTBE	grams	19.89	16.82				**36.71**

JUNE, 2004		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	160	59	41	<25	<25	
MTBE	ug/l	180	27	54	BDL	BDL	
Total Flow	gallons	33,910	229,350	N/A	N/A	263,260	
	liters (3.78533)	128,361	868,165			996,526	
Mass							
TPH-g	grams	20.54	51.22				**71.76**
MTBE	grams	23.10	23.44				**46.55**

Total TPH-g Mass Removed for 2nd Quarter **167.56g**
Total MTBE Mass Removed for 2nd Quarter **162.56g**